

A PRELIMINARY NOTE ON THE INTESTINAL FLAGELLATES
OF THE AUSTRALIAN ANURA

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An examination of 62 species of anurans located eight species of intestinal flagellates: *Karotomorpha bufonis*, *Chilomastix caulleryi*, *Retortamonas dobelli*, *Giardia agilis*, *Spiroucleus elegans*, *Monocercomonas batrachorum*, *Trichomitus batrachorum*, and *Tetratrichomonas prowazeki*.

□ Intestinal protozoans, flagellates, Australian Anura.

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Between 1983 and 1985, 924 adult specimens of 62 species of native and introduced anurans and 115 tadpoles of *Bufo marinus* from 99 localities in all six States of mainland Australia, were checked for the presence of intestinal protozoans. Specimens are lodged with the Queensland Museum (QM). Anuran nomenclature follows Cogger, H.G., Cameron, E.E. and Cogger, H.M. (1983). 'Zoological Catalogue of Australia: Amphibia and Reptilia'. Vol. I. (Australian Government Printing Service:

Canberra).

Abbreviations are: *N* = number; *Kb* = *Karotomorpha bufonis*; *Ca* = *Chilomastix caulleryi* (QM GL 4849); *Rd* = *Retortamonas dobelli*; *Ga* = *Giardia agilis*; *Se* = *Spiroucleus elegans* (QM GL 4872, 4873); *Mb* = *Monocercomonas batrachorum* (QM GL 4874); *Tb* = *Trichomitus batrachorum* (QM GL 4875, 4876). In addition, one *Tetratrichomonas prowazeki* (QM GL 4876) was found in one out of three *Limnodynastes dorsalis*.

HOSTS	<i>N</i>	<i>Kb</i>	<i>Ca</i>	<i>Rd</i>	<i>Ga</i>	<i>Se</i>	<i>Mb</i>	<i>Tb</i>
BUFONIDAE								
<i>Bufo marinus</i>	267		15	7	1	162	57	206
(tadpoles)	115				35	48		25
HYLIDAE								
<i>Cyclorana brevipes</i>	1							1
<i>novaehollandiae</i>	6					2		5
<i>Litoria alboguttata</i>	1							1
<i>caerulea</i>	63			4	5	18	3	59
<i>chloris</i>	14					2	3	13
<i>cyclorhyncha</i>	5					5	1	1
<i>dahlui</i>	10					6	1	8
<i>dentata</i>	5					3	2	2
<i>ewingii</i>	3					3	1	1
<i>fallax</i>	72	9	1			45	7	19
<i>gracilentata</i>	5					2	1	4
<i>inermis</i>	26					7	1	10
<i>infrafnata</i>	1					1		
<i>latopalmata</i>	20		2			4	4	11
<i>lesueuri</i>	38					15	4	16
<i>moorei</i>	1							
<i>nannotis</i>	2						1	1
<i>nasuta</i>	36		1			13	6	29
<i>nigrofrenata</i>	3							2
<i>nyakalensis</i>	5					1		2
<i>pallida</i>	21					16	6	14

HOSTS	<i>N</i>	<i>Kb</i>	<i>Ca</i>	<i>Rd</i>	<i>Ga</i>	<i>Se</i>	<i>Mb</i>	<i>Tb</i>
HYLIDAE (cont.)								
<i>pearsoniana</i>	3							
<i>peronii</i>	26				1	12	1	14
<i>raniformis</i>	1					1		
<i>revelata</i>	2					1		2
<i>rheocola</i>	11					2	2	1
<i>rothii</i>	32	1	2			22	4	20
<i>rubella</i>	26		1			6	1	19
<i>serrata</i>	2					1		
<i>tornieri</i>	15					6	2	11
<i>tyleri</i>	2							2
<i>verreauxii</i>	1					1		
<i>Nyctimystes dayi</i>	10					1		6
MYOBATRACHIDAE								
<i>Adelotus brevis</i>	3							2
<i>Assa darlingtoni</i>	4							2
<i>Limnodynastes</i>								
<i>convexusculus</i>	2		1			1		2
<i>dorsalis</i>	3		1			2		3
<i>dumerilii</i>	4					4		2
<i>ornatus</i>	10					6	3	8
<i>peronii</i>	21					15	3	18
<i>salmini</i>	2							2
<i>tasmaniensis</i>	13					7	1	6
<i>terraereginae</i>	14					6		10
<i>Mixophyes fasciolatus</i>	6						1	3
<i>iteratus</i>	2							2
<i>schevilli</i>	3							1
<i>Neobatrachus centralis</i>	2					2	1	2
<i>pelobatoides</i>	3					2		2
<i>pictus</i>	4					4		3
<i>Pseudophryne bibronii</i>	1							1
<i>coriacea</i>	2					1		2
<i>Ranidella bilingua</i>	9					7	2	6
<i>insignifera</i>	1					1		
<i>parinsignifera</i>	20					15		1
<i>signifera</i>	39					30	6	6
<i>Taudactylus acutirostris</i>	3							
<i>rheophilus</i>	2		1					1
<i>Uperoleia laevigata</i>	4					1	1	2
MICROHYLIDAE								
<i>Cophixalus ornatus</i>	6							1
<i>Sphenophryne robusta</i>	2							2
RANIDAE								
<i>Rana daemeli</i>	4							2